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|--------------------------------------------------------------------------------|-----------------------|----------------------|---------------------|------------------|
| 10/550,454 | 03/10/2006 | Thomas Peglow | Q90175 | 4642 |
| 23373 7590 01/25/2010 SUGHRUE MION, PLLC 2100 PENNSYL VANIA AVENUE, N.W. | | | EXAMINER | |
| | | | WU, SHEAN CHIU | |
| SUITE 800 WASHINGTON, DC 20037 | | ART UNIT | PAPER NUMBER | |
| | 710111 (0101, 20 200) | | 1795 | • |
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| | | | NOTIFICATION DATE | DELIVERY MODE |
| | | | 01/25/2010 | ELECTRONIC |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Application No. Applicant(s) 10/550,454 PEGLOW ET AL. Office Action Summary Examiner Art Unit Shean C. Wu 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 09 June 2009 and 06 November 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 4-54 is/are pending in the application. 4a) Of the above claim(s) 8.20-24 and 31-54 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1,4-7,9-19 and 25-30 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Applicant's election with traverse of electing compound 4 in the reply filed on 11/6/09 is
acknowledged. The traversal is on the ground that the new class of dyes which are useful for the
mesogenic mixture. This is not found persuasive because the species of the formula IIIa and IIIb
are patent distinct. The chemical compounds in the present claims have different structure.

The requirement is still deemed proper and is therefore made FINAL.

 The elected species reads on claims 1, 4-7, 9-19 and 25-30. Therefore, the claims 8, 20-24 and 31-54 are withdrawn from the consideration as non-elected species.

Claim Rejections - 35 USC § 112

 Claims 1, 4-7, 9-19 and 25-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, the proviso for A is not clearly defined because the $q^{1.4}$ can be 0. If each of q is 0 then $Ar^{1.4}$ does not mean anything. If applicants intend to claim the compounds of formula I with at least one naphthalene derivative then the claim should be clearly defined.

In claims 29-30, the definition for the sum of $q^{1.4}$ is incorrect. Also, the variables P^1 , D's, Z's and m's are not clearly defined because some of the variables are not part of the formula I.

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The claims 4-7, 9-19 and 25-28 are rejected because they are dependent claims.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1, 4-7, 9-15 and 25-30 are rejected under 35 U.S.C. 102(b) as being anticipated by
 CAPLUS 1993: 672175

The reference discloses a polymerizable compound represented by the following structure

, which anticipates the claimed formula I with A being formula IIIa ($q^{1-4} = 0$).

Response to Arguments

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6. Applicant's arguments, see remarks, filed 6/9/09, with respect to the rejections in the previous Office Action mailed 3/9/09 have been fully considered and are persuasive in light of the newly amended claim. Therefore, the rejections have been withdrawn. However, upon further consideration, new grounds of rejection are made in view of the sections 3 and 5 cited above.

- The elected compound 4 is allowed.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shean C. Wu whose telephone number is 571-272-1393. The examiner can normally be reached on 10:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kelly Cynthia can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Shean C Wu/ Primary Examiner, Art Unit 1795

scw